

Review of some Basic Algebra

Expand and simplify each of the following:

a) $2(3x - 1) - 2x(3x + 1)$

b) $(x + 2)(2x + 1)$

c) $3(x - 2)(x + 5)$

d) $(x^2 - 3x + 4) - (5x^2 - x + 2)$

e) $(x + 3)^2$

f) $(x + 1)(2x - 1) - (4x - 1)(x + 3)$

Suppose that $x = -1$, $y = 2$ and $z = -3$. Then **evaluate** each of the following:

a) $x^2 - 2y + z$

b) $3z^2 + x^2$

For all of the above questions, you are working with _____.

Solve each of the following.

a) $2x - 5 = 13$

b) $3n - 4 = 6n + 20$

c) $2(3r - 4) = 3 - 2(r + 6)$

d) $x^2 - 9 = 0$

The above questions all deal with _____.

Algebra Review Exercises

1. Solve each of the following. (we will take these up in class tomorrow)

a) $2n + 18 = 4n - 30$

b) $3(2x - 4) - 3(x + 2) = 5x$

c) $4(z - 3) = 2(z + 1) - 5z$

d) $2s^2 - 72 = 0$

2. Text page 62 #6acdef, 8 (check answers in back of text)

3. Page 122 #3abeef, 4 (check answers in back of text)

ANSWERS to #1: a) $n=24$ b) $x=9/4$ c) $z=2$ d) $s = 6$ or -6